



Polski Rejestr Statków

APPROVAL CERTIFICATE

This is to certify that the

Unitest Engine Room Simulator Package
consisting of

the following modules: Virtual Engine Room or Engine Room Console
Virtual Engine Room - Electronic Control
MS Engine Room or MS Engine Room Console
Steam Engine Room
Unitest Marine Training Software
Turbo Diesel
Unitest Engine Room Full Mission Simulator
Unitest Medium Speed Engine Room Simulator MED3DH or MED3D
Unitest Medium Speed Engine Room Simulator MER3D or MEC3D
Unitest FMEC Full Mission Engine Room Simulator
Unitest Low Speed Engine Room Simulator LER3D
Gas Turbine Simulator

Unitest Low Speed Engine Room Simulator W-Xpert (FPP and CPP version) - Electronic Control ME
Unitest Medium Speed Engine Room Simulator PSV3D
High Voltage Diesel Electric Engine Room Simulator HV-DE3D
LNG Diesel Electric Engine Room Simulator LNG-DE3D
Unitest Low Speed Engine Room Simulator RT-flex50DF
Unitest Medium Speed Engine Room Simulator Reefer Version Reefer3D

manufactured by

UNITEST Marine Simulators Sp. z o.o.
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is found to comply with

the requirements of STCW 2010 Convention (with Manila Amendments)

Certificate No. TE/273/883995/17

Expiry date 2020-11-02

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Gdańsk, 2017-11-03



Signature

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Continued overleaf

Product Description:

The Unitest Engine Room Simulator Package consists from the group of modules, which have been described in the Manufacturers Technical Manuals:

- Virtual Engine Room 4.8 User's Guide (19.07.2012), Engine Room Console 4.8 User's Guide (20.06.2012), Engine Room Console 4.7 XL User's Guide (14.03.2011);
- Virtual Engine Room 5 EC User Guide (15.12.2009);
- Virtual Engine Room 6 User's Guide (15.09.2014), Engine Room Console 6 and Engine Room Console 6 XL User's Guide (28.10.2014);
- Unitest MS Engine Room Simulator – User Manual (03.01.2004);
- Steam Engine Room Simulators Steam Engine Room 2 LNG and Steam Engine Room Console User's Guide (21.09.2012);
- Unitest Marine Training Software User Manual: Part 1 (16.07.2001), Part 2 (27.09.2001), Part 3 (03.01.2004), Part 4 (03.01.2004), Part 5 (12.11.2005), Part 6 (9.10.2007), Part 7 (07.04.2009), Part 8 (11.09.2011);
- Turbo Diesel 5 User Manual (08.05.2012);
- Unitest Engine Room Instructor Manual (05.06.2005);
- Unitest Medium Speed Engine Room Simulator User Manual MED3D (24.01.2010) and MED3DH (21.03.2009);
- Unitest Medium Speed Engine Room Simulator User Manual MER3D (25.05.2011);
- Unitest FMEC Full Mission Engine Room Simulator User Manual (05.04.2008);
- Unitest Low Speed Engine Room Simulator User Manual LER3DH and LER3D (29.01.2010);
- Gas Turbine Simulator User Guide (07.09.2012);
- Unitest Low Speed Engine Room Simulator W-Xpert (FPP and CPP version) User Guide (15.04.2013);
- Unitest Medium Speed Engine Room Simulator PSV3D User Guide (16.03.2013);
- High Voltage Diesel Electric Engine Room Simulator HV-DE3D User Manual (30.05.2016);
- LNG Diesel Electric Engine Room Simulator LNG-DE3D User Manual (28.12.2016);
- Unitest Low Speed Engine Room Simulator RT-flex50DF User's Manual (16.09.2016);
- Unitest Medium Speed Engine Room Simulator Reefer Version User Manual Reef-MED3D (11.04.2017).

Abbreviations:

The following abbreviations are used in this Certificate for the description of the Unitest Engine Room Simulator Package components:

UERSP - Unitest Engine Room Simulator Package, VER - Virtual Engine Room, VER EC - Virtual Engine Room - Electronic Control, ERC - Engine Room Console, ERC XL - Engine Room Console - Hardware Version, MER - MS Engine Room, MEC - MS Engine Room Console, SER - Steam Engine Room, CBT - Unitest Marine Training Software, TD - Turbo Diesel, UER - Unitest Engine Room Full Mission Simulator, MED3DH - Unitest Medium Speed Engine Room Simulator 3D Hardware Version, MED3D - Unitest Medium Speed Engine Room Simulator 3D Software Version, MER3D - Unitest Medium Speed Engine Room Simulator 3D Software Version, MEC3D - Unitest Medium Speed Engine Room Simulator 3D Hardware Version, FMEC - Full Mission Engine Room Simulator, LER3D - Unitest Low Speed Engine Room Simulator 3D Software Version, GTS - Gas Turbine Simulator, W-Xpert - Unitest Low Speed Engine Room Simulator Software Version (FPP-Fixed and CPP-Controllable Pitch Propeller version with Electronic Control Main Engine), PSV3D - Unitest Medium Speed Engine Room Simulator Software Version (Platform Supply Vessel Engine Room Simulator), HV-DE3D High Voltage Diesel Electric Engine Room Simulator 3D Software Version, LNG-DE3D LNG Diesel Electric Engine Room Simulator 3D Software Version, RT-flex50DF Unitest Low Speed Engine Room Simulator 3D Software Version, Reefer3D Unitest Medium Speed Engine Room Simulator Reefer Version 3D Software Version.

Software versions: See Annex No. 1 to this Certificate.

Application/Limitation: See Annex No. 1 to this Certificate.

Basis of approval:

1. The technical documentation approved by PRS on 2017-10-24.
2. The PRS inspection carried out in October 2017.
3. PRS Survey Report No. TM/PU/15/17 issued on 2017-10-24.
4. The previous PRS Approval Certificate No. TE/261/883995/15.

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Annex No. 1 to the PRS Approval Certificate No. TE/273/883995/17.

Pages: 3.

*** Application/Limitation *** The Unitest Engine Room Simulator Package, as described above, gives the capability to simulate a realistic engine room environment for the following competencies:

STCW-2010 (with Manila Amendments) Reference:	Competence	UER	MED3DH/MED3D	MER3D/MEC3D	FMEC	VER/ERC/ERC XL	MER/MEC	SER	TD	CBT	VER - EC	LER3D	GTS	UERSP	W-Xpert	PSV3D	HV-DE3D	LNG-DE3D	RT-flex50DF	Reefer3D	
Table A-III/1.1	Maintain a safe engineering watch	F	F	F	F	F	F	F	L		F	F	F	F	F	F	F	F	F	F	F
Table A-III/1.4	Operate main and auxiliary machinery and associated control systems	F	F	F	F	F	F	F	L	F	F	F	F	F	F	F	F	F	F	F	F
Table A-III/1.5	Operate fuel, lubrication, ballast and other pumping systems and associated control systems	F	F	F	F	F	F	F			F	F	F	F	F	F	F	F	F	F	F
Table A-III/1.6	Operate electrical, electronic and control systems	F	F	F	F	F	F	F			F	F		F	F	F	F	F	F	F	F
Table A-III/1.7	Maintenance and repair of electrical and electronic equipment	L	L	L	L	L	L	L	L		L	L		L	L	L	L	L	L	L	L
Table A-III/1.11	Maintain seaworthiness of the ship	F	F	F	F	F	F	F			F	F		F	F	F	F	F	F	F	F
Table A-III/2.1	Manage the operation of propulsion machinery	F	F	F	F	F	F	F	F		F	F	F	F	F	F	F	F	F	F	F
Table A-III/2.2	Plan and schedule operations	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Table A-III/2.3	Operation, surveillance, performance assessment and maintaining safety of propulsion plant and auxiliary machinery	F	F	F	F	F	F	F	F		F	F	F	F	F	F	F	F	F	F	F
Table A-III/2.4	Manage fuel, lubrication and ballast operations	F	F	F	F	F	F	F			F	F	L	F	F	F	F	F	F	F	F
Table A-III/2.5	Manage operation of electrical and electronic control equipment	L	L	L	L	L	L	L			L	L		L	L	L	L	L	L	L	L
Table A-III/2.6	Manage trouble-shooting, restoration of electrical and electronic control equipment to operating conditions	L	L	L	L	L	L	L	L	L	L	L		L	L	L	L	L	L	L	L
Table A-III/2.7	Manage safe and effective maintenance and repair procedures	L	L	L	L	L	L	L	F	F	L	L		F	F	F	L	L	L	L	L
Table A-III/2.8	Detect and identify the cause of machinery malfunctions and correct faults	L	L	L	L	L	L	L	F	F	L	L		F	F	F	L	L	L	L	L
Table A-III/2.10	Control trim, stability and stress	L	L	L	L	L	L	L			L	L		L	L	L	L	L	L	L	L
Table A-III/2.14	Use leadership and management skills	F	F	L	F	L								F	F	F	F	F	F	F	F
Table A-III/4.2	For keeping a boiler watch: Maintain the correct water levels and steam pressures	F	F			F		F		F	F	F		F	F	F				F	F
Table A-III/6.1	Monitor the operation of electrical, electronic and control systems	L	L	L	L	L	L	L		L	L	L		L	L	L	L	L	L	L	L
Table A-III/6.2	Monitor the operation of automatic control systems of propulsion and auxiliary machinery	L	L	L	L	L	L			L	L	L		L	L	L	L	L	L	L	L

Table A-III/6.3	Operate generators and distribution systems	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Section A-I/12 Part 1.2	General performance standards for simulators used in assessment of competence	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Section A-I/12 Part 2.8	Assessment procedures	F				F			F	F		F	F	F	F	F	F			
Section B-I/12	Main and auxiliary machinery operation simulation	F	L	L	L	F	L	L			F	L	L	F	F	F	L	L	F	L

Legend: F-full compliance, L-limited compliance, „blank” – not applicable.

The Unitest Engine Room Simulator Package can be used for the training and assessment in accordance with STCW 2010 (with Manila Amendments) standards. The Unitest Engine Room Simulator Package can be also used for developing the procedures, drills and exercises specified in ISM Code Section 6 and Section 8. It should be taken into consideration that the successful simulator training requires not only the proper engine room simulator but also the correct training program and the appropriate instructor/assessor competencies.

The following software versions have been evaluated when issuing this certificate:

- UERSP Unitest Engine Room Simulator Package ver. 4.x
- VER Virtual Engine Room ver. 4.x.x.x
- VER - EC Virtual Engine Room – Electronic Control ver. 5.x
- VER Virtual Engine Room ver. 6.x.x.x
- ERC Engine Room Console ver. 4.x.x.x
- ERC XL Engine Room Console Hardware Version ver. 4.x.x.x
- ERC Engine Room Console ver. 6.x.x.x
- ERC XL Engine Room Console Hardware Version ver. 6.x.x.x
- MER MS Engine Room ver. 2.2.x.x
- MEC MS Engine Room Console ver. 2.2.x.x
- FMEC Full Mission Engine Room Simulator ver. 1.1
- SER Steam Engine Room ver. 2.x.x.x
- CBT Unitest Marine Training Software Parts 1, 2, 3, 4, 5, 6, 7 and 8
 - Water pumps module dated 01.01.2003
 - Hydrophore installation module dated 31.01.2003
 - Fresh water generator module dated 30.01.2003
 - Piston compressor module dated 08.08.1997
 - Refrigerating plant module dated 31.01.2003
 - Diesel engines module dated 08.08.1997
 - Diesel engine generators module dated 01.04.2003
 - Steering gear simulator part 1 – fixed deliv. pump module dated 30.01.2003
 - Steering gear simulator part 2 – var. deliv. pump module dated 31.01.2003
 - Oily water separator module dated 31.01.2003
 - Biological sewage treatment plant module dated 30.01.2003
 - Auxiliary steam boiler installation module dated 31.01.2003
 - Marine diesel engine monitoring systems module dated 30.01.2003
 - Fuel oil treatment plant module dated 30.01.2003
 - Controllable pitch propeller simulator module dated 31.01.2003
 - Combine Oil Fired and Exhaust Gas Boiler dated 26.10.2006
 - Electric Power Plant dated 30.06.2004
 - Fuel Conditioning Module dated 10.05.2004
 - Marine Heat Exchangers dated 07.06.2005
 - Oily Water Separator dated 28.05.2004
 - Remote Control System for MAN B&W LMC Engines dated 16.06.2004
 - Remote Control System for Sulzer RTA Engines dated 16.06.2004
 - Reverse Osmosis Desalination System dated 12.10.2003
 - S-type Separation System dated 21.12.2002
 - Emergency Power Plant dated 10.11.2005
 - Rotary Vane Steering Gear dated 06.09.2005



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○ Air Conditioning Plant	dated 23.02.2007
○ EcoStream Oily Water Separator	dated 29.12.2006
○ Fresh Water Generator	dated 01.10.2007
○ Refrigerating Plant 3D	dated 07.04.2009
○ Hydrophore Installation 3D	dated 07.04.2009
○ Hydraulic Machinery	dated 07.04.2009
○ Refrigeration Plant 3D	dated 07.04.2009
○ Aqua Freshwater Generator	dated 11.09.2011
○ Diesel Engines	dated 11.09.2011
○ Gas Turbines	dated 11.09.2011
● TD Turbo Diesel	ver. 5.x
● UER Unitest Engine Room	ver. 1.x
● MED3DH Medium Speed Diesel 3D Hardware Version	ver. 1.x
● MED3D Medium Speed Diesel 3D Software Version	ver. 1.x
● MER3D Medium Speed Diesel 3D Software Version	ver. 1.x
● MEC3D Medium Speed Diesel 3D Hardware Version	ver. 1.x
● LER3D Low Speed Diesel 3D Software Version	ver. 1.x
● GTS Gas Turbine Simulator	ver. 1.x
● W-Xpert Low Speed Engine Room Simulator (FPP and CPP version)	ver. 1.x
● PSV3D Medium Speed Engine Room Simulator Software Version	ver 1.x
● HV-E3D HV Diesel Electric 3D	ver. 1.x
● LNG-DE3D LNG Diesel Electric 3D Software Version	ver. 1.x
● RT-flex50DF Low Speed Diesel 3D Software Version	ver. 1.x
● Reefer3D Med. Speed Diesel Reefer Version 3D Soft. Ver.	ver. 1.x